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From: Bozorgchami, Payam@Energy **Sent:** Friday, July 17, 2015 12:52 PM

To: 'info@app-techinc.com'

Subject: Changes to the Residential Compliance Manual

Dear Mr. Splitt,

I wanted to reach out to you and review the changes we made to the Residential Compliance Manual in response to your Emergency Rulemaking petition.

We were able to edit several sections in the Manual in response to your recommendations. Attached are page excerpts containing the changes (highlighted) that address items in your petition, numbered according to each item. The edits include the following:

Item 3: §150.0(q)

Section 3.3.1 - Clarified the reason for mandating minimum requirements for the building envelope. Even though the mandatory requirements do not necessarily increase energy efficiency, it provides a baseline to support the long-term goal of zero net energy.

Section 3.5.3.4 - Clarified that the minimum U-factor for fenestration is based on worst case scenario and using area-weighted averaging allows more flexibility in the placement of fenestration products throughout the building.

- Item 4: §150.1(c)3A, Exception 4
 - 1. **Section 3.5.3.2A and Section 3.5.5D** Revised the language to show that there is a compliance path for non-rated site-built windows, even though they are rare. There can be a combination of different fenestration products used and this exception only applies to non-rated site-built products.
 - 2. **Section 3.5.3.2** Added an example of a single-pane, operable, metal-framed fenestration product having a U-factor of 1.28 from Table 110.6-A. These are the worst case scenarios that can be assumed when the product is not rated by NFRC. However, the area weighted average U-factor must not exceed 0.58.
- Item 6: §141.0(b)1

Reference to Section 3.3.1 (item3.pdf) – The minimum requirements support the long term goal of zero net energy in existing buildings and does not allow a building envelope component to be traded off against other building components.

Item 7: §141.0(b)2Biii

Example 9-13 – Added this example to show why this section is not relevant to this situation and what section of the Standards would apply.

Please let me know if there's any additional information my team can provide.

Regards, Payam

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